

### ABSTRACT

The present invention is directed to a novel cytochrome c oxidase complex, genetic materials useful for the preparation of the said complex, such as recombinant polypeptides involved in cytochrome c oxidase complex, recombinant DNA fragments, expression vectors, recombinant organisms and the like. Those novel cytochrome c oxidase complex and genetic materials may be originated from a microorganism having the identifying characteristics of *Gluconobacter oxydans* DSM 4025. The present invention also provides a method for the preparation of the said novel recombinant cytochrome c oxidase complex and a process for the production of 2-keto-L-gulonic acid (2KGA).